

Appendix A: Table 2a. Impacts by Land TypeDane County Electric Reliability Initiative - North Madison to Huiskmap 138-kV Project
Dane County, Wisconsin

ROUTE / SEGMENT	Total			Zoning ¹				Land Use ²								Ownership ⁶					
				Residential		Commercial / Industrial		Agriculture		Forest Land ³		Wetlands ⁴		Uplands ⁵		Municipal		County		State	
	Length (ft)	Miles	Acres	Length (ft)	Acres	Length (ft)	Acres	Length (ft)	Acres	Length (ft)	Acres	Length (ft)	Acres	Length (ft)	Acres	Length (ft)	Acres	Length (ft)	Acres	Length (ft)	Acres
Preferred																					
1	3,698	0.7	7.6	0	0.00	0	0.00	3,422	7.13	0	0.00	0	0.00	276	0.49	0	0.00	0	0.00	0	0.00
56	2,648	0.5	4.9	0	0.00	0	0.00	2,624	4.14	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
47	2,681	0.5	4.9	0	0.00	0	0.17	485	0.83	0	0.36	0	0.00	1,653	0.35	150	0.14	0	0.00	0	0.00
49	7,919	1.5	14.5	0	0.08	0	0.00	4,041	7.57	0	0.29	20	0.04	2,890	1.26	0	0.00	0	0.00	0	0.00
58	5,350	1.0	9.8	0	0.06	0	0.00	2,930	5.68	0	0.00	0	0.00	1,813	1.48	0	0.00	0	0.00	0	0.00
9	2,432	0.5	4.5	200	0.24	0	0.00	1,748	2.97	0	0.00	0	0.00	505	0.24	0	0.00	0	0.00	0	0.00
14	5,361	1.0	9.8	528	0.65	0	0.00	3,092	5.24	0	0.00	0	0.00	1,693	1.37	0	0.00	0	0.00	0	0.00
26	5,330	1.0	9.8	17	0.04	0	0.00	4,463	4.56	0	0.00	0	0.00	648	1.36	0	0.00	0	0.00	0	0.00
32	4,056	0.8	7.4	0	0.00	0	0.00	1,934	3.28	0	0.00	297	0.52	1,328	2.46	0	0.00	0	0.00	0	0.00
61	1,519	0.3	2.8	0	0.00	0	0.00	0	0.19	0	0.00	60	0.11	1,695	1.86	0	1.62	0	0.00	0	0.00
35	3,855	0.7	7.1	0	0.00	1,235	1.58	677	0.42	0	0.00	249	1.09	919	3.08	0	3.47	0	0.00	0	0.00
36	558	0.1	1.2	0	0.00	543	0.72	0	0.00	0	0.00	0	0.00	558	0.86	0	0.00	0	0.00	0	0.00
Total	45,407	8.6	84.4	745	1.07	1,778	2.47	25,416	42.01	0	0.65	626	1.76	13,978	14.80	150	5.23	0	0.00	0	0.00
Alternate																					
2a	2647	0.5	5.5	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	2,633	5.47	0	0.00	0	0.00	0	0.00
2b	2241	0.4	4.1	0	0.00	0	0.00	1,762	2.70	0	0.00	0	0.00	362	1.06	0	0.00	0	0.00	0	0.00
3	2670	0.5	4.9	0	0.00	0	0.00	626	1.31	0	0.95	544	0.99	1,022	0.34	0	0.00	0	0.00	0	0.00
43a	7968	1.5	14.6	51	0.17	0	0.00	5,668	7.55	0	0.38	0	0.00	1,762	1.30	0	0.00	0	0.00	0	0.00
45	3855	0.7	7.1	0	0.00	0	0.00	3,708	4.34	0	0.00	0	0.00	110	1.05	0	0.00	0	0.00	0	0.00
8b	5292	1.0	9.7	0	0.00	0	0.00	4,678	7.43	0	0.00	0	0.00	515	0.34	0	0.00	0	0.00	0	0.00
13	5270	1.0	9.7	0	0.00	0	0.00	4,833	7.04	0	0.00	0	0.00	313	0.65	0	0.00	0	0.00	0	0.00
24	4657	0.9	8.6	0	0.00	0	0.00	986	1.19	0	0.00	98	0.25	1,634	2.15	222	5.31	0	0.00	0	0.00
27	1847	0.3	3.8	0	0.00	0	0.00	1,003	0.81	0	0.00	0	1.39	636	1.21	1733	2.46	0	0.00	0	0.00
31	7609	1.4	15.7	0	0.00	0	0.03	4,003	4.13	0	0.00	2,223	5.01	1,031	4.92	0	4.99	0	0.00	0	0.00
34	1063	0.2	2.2	0	0.00	732	1.34	398	0.83	0	0.00	172	0.27	493	0.82	0	0.00	0	0.00	0	0.00
36	558	0.1	1.2	0	0.00	514	0.75	0	0.00	0	0.00	0	0.00	588	0.86	0	0.00	0	0.00	0	0.00
Total	45,677	8.7	87.0	51	0.17	1,246	2.12	27,665	37.33	0	1.33	3,037	7.91	11,101	20.16	1,955	12.76	0	0.00	0	0.00

¹ Data from Dane County GIS Zoning layer. All calculations for each of the categories were completed using ArcMap GIS. Lengths were calculated based on the proposed and alternate centerline crossings. Areas were quantified by clipping polygons with a 45 foot corridor extending from the edge of road ROW, or an 80 foot corridor along existing transmission line ROW, then calculating acres.

² Refers to extent of agricultural land, forest land, wetlands and uplands based on aerial photograph interpretation and field investigation.

³ Refers to tree-dominated communities with > 20% canopy cover, crossing into the ROW and extending for at least 75 feet along it. Small clusters of trees associated with residences and areas with < 20% canopy cover were not considered forested areas. Forested wetlands are included under the "wetland" heading. Segment 31 is an existing transmission line ROW that is routinely cleared of tall growing trees, although part of the ROW is adjacent to forested land.

⁴ Wetland distances and acreages may also include open water and were based on field delineated wetland boundaries. Distances given are across the ROW centerline.

⁵ Fallow field only. Other non-habitat uplands (commercial/industrial, residential, roads, and railways) total 25.18 acres for the preferred route and 20.27 acres for the alternate route.

⁶ No Federal Lands, County Land or Native American Reservations are located along any of the segments for either route. Does not include road ROWs (18,279 feet and 19.82 acres for the preferred route and 16,252 feet and 16.85 acres for the alternate route).

Note: Corrections were not made for segment corridor overlaps when calculating zoning, land use, and ownership areas so these areas may be over-estimated by up to 0.5%. Some zoning, land use, and ownership types included in each corridor are not crossed by the centerline, so lengths and areas do not match in all cases.